AUG 1 5 ZUU/

e Form PTO-1449

U.S. Department of Commerce Patent and Trademark Office Attorney's Docket No. 10861-033US1 Applicant

Application No. 10/575,932

Information Disclosure Statement by Applicant (Use several sheets if necessary)

Anjana Rao et al.

Group Art Unit

(37 CFR §1.98(b))

| April 14, 2006 | 1656 | U.S. Patent Documents

| | | | U.S. Pate | nt Documents | | | |
|---------------------|--------------|--------------------|---------------------|---------------|-------|----------|----------------------------|
| Examiner Initial | Desig. ID | Document Number | Publication Date | Patentee | Class | Subclass | Filing Date If Appropriate |
| | Al | 6,087,122 | July 11, 2000 | Hustad et al. | | | |
| | A2 | | | | | | |

| | Foreig | n Patent Doc | uments or P | ublished Foreign F | atent / | Application | ns | |
|----------|--------|--------------|-------------|--------------------|---------|-------------|-------|--------|
| Examiner | Desig. | Document | Publication | Country or | | | Trans | lation |
| Initial | ID T | Number | Date | Patent Office | Class | Subclass | Yes | No |
| | B1 | | | | | | | |

| | Other Documents (include Author, Title, Date, and Place of Publication) | | | | |
|----------|---|---|--|--|--|
| Examiner | Desig. | | | | |
| Initial | ID | Document | | | |
| | C1 | Anandasabapathy et al., "GRAIL: an E3 ubiquitin ligase that inhibits cytokine gene transcription is expressed in anergic CD4+ T cells," Immunity. 18(4):535-547 (2003) | | | |
| | C2 | Aramburu et al., "Affinity-driven peptide selection of an NFAT inhibitor more | | | |
| | | selective than cyclosporin A," Science, 285(5436):2129-2133 (1999) | | | |
| | C3 | Aramburu et al., "Selective inhibition of NFAT activation by a peptide spanning the calcineurin targeting site of NFAT," Mol. Cell., 1(5):627-637 (1998) | | | |
| | C4 | Arendt et al., "Protein kinase C-theta;: signaling from the center of the T-cell synapse," Curr. Opin. Immunol., 14(3):323-30 (2002) | | | |
| | C5 | Babst et al., "Mammalian tumor susceptibility gene 101 (TSG101) and the yeast homologue, Vps23p, both function in late endosomal trafficking," Traffic 1(3):248-58 (2000) | | | |
| | C6 | Bachmaier et al., "Negative regulation of lymphocyte activation and autoimmunity by the molecular adaptor Cbl-b," Nature, 403(6766):211-216 (2000) | | | |
| | C7 | Ben-Neriah, "Regulatory functions of ubiquitination in the immune system," Nat. Immunol., 3(1):20-26 (2002) | | | |
| | C8 | Berleth et al., "Inhibition of Ubiquitin-Protein Ligase (E3) by Mono-and Bifunctional Phenylarsenoxides", The J. of Biol. Chemistry 287(23):16403-16411 (1992) | | | |
| _ | С9 | Bica et al., "Hepatic schistosomiasis," Infect. Dis. Clin. North Am., 14(3):583-604 (2000) | | | |
| | C10 | Bogen et al., "In situ analysis of cytokine responses in experimental murine schistosomiasis," Lab Invest. 73(2):252-258 (1995) | | | |

| nformance and not considered. Include copy of this form with |
|--|
| |

| Substitute Form PTO-1449 U.S. Department of Commerce (Modified) Patent and Trademark Office | | Attomey's Docket No. 10861-033US1 | Application No. 10/575,932 |
|--|--|--------------------------------------|----------------------------|
| Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b)) | | Applicant Anjana Rao et al. | |
| | | Filing Date April 14, 2006 | Group Art Unit 1656 |

| | Other D | ocuments (include Author, Title, Date, and Place of Publication) |
|---------------------|--------------|--|
| Examiner Initial | Desig. ID | Document |
| | C11 | Boisclair et al., "Development of a ubiquitin transfer assay for high throughput screening by fluorescence resonance energy transfer," J. Biomol. Screen., 5(5):319-328 (2000) |
| | C12 | Boussiotis et al., "Maintenance of human T cell anergy: blocking of IL-2 gene transcription by activated Rap1," Science, 278(5335):124-128 (1997) |
| | C13 | Chen et al., "Structure of the DNA-binding domains from NFAT, Fos and Jun bound specifically to DNA," Nature, 392(6671):42-48 (1998) |
| | C14 | Chen et al., "Only one of the two DNA-bound orientations of AP-1 found in solution cooperates with NFATp," Curr. Biol. 5(8):882-889 (1995) |
| | C15 | Chiang et al., "Cbl-b regulates the CD28 dependence of T-cell activation," Nature, 403(6766):216-220 (2000) |
| | C16 | Crabtree, "Generic signals and specific outcomes: signaling through Ca2+, calcineurin, and NF-AT," Cell. 96(5):611-4 (1999) |
| | C17 | Degterev et al., "Identification of small-molecule inhibitors of interaction between the BH3 domain and Bcl-xL," Nat. Cell Biol., 3(2):173-182 (2001) |
| | C18 | Delon et al., "Imaging of T-cell interactions with antigen presenting cells in culture and in intact lymphoid tissue," Immunol. Rev. 189:51-63 (2002) |
| | C19 | de Melker et al., "c-Cbl ubiquitinates the EGF receptor at the plasma membrane and remains receptor associated throughout the endocytic route," J. Cell Sci. 114(11):2167-78 (2001) |
| | C20 | Ding et al., "IL-10 inhibits macrophage costimulatory activity by selectively inhibiting the up-regulation of B7 expression," J. Immunol. 151(3):1224-1234 (1993) |
| | C21 | Dolmetsch et al., "Differential activation of transcription factors induced by Ca2+response amplitude and duration," Nature. 386(6627):855-8 (1997). Erratum in: Nature 1997 Jul 17;388(6639):308. |
| | C22 | Dustin et al., "A novel adaptor protein orchestrates receptor patterning and cytoskeletal polarity in T-cell contacts," Cell 94(5):667-77, (1998) |
| | C23 | Fang et al., "Dysregulation of T lymphocyte function in itchy mice: a role for Itch in TH2 differentiation," Nat. Immunol. 3(3):281-287 (2002). Epub 2002 Feb 4. |
| | C24 | Feske et al., "Gene regulation mediated by calcium signals in T lymphocytes," Nat. Immunol., 2(4):316-324 (2001) |
| | C25 | Fields et al., "Blocked Ras activation in anergic CD4+ T cells," Science, 271(5253):1276-1278 (1996) |
| | C26 | Fontenot et al., "Foxp3 programs the development and function of CD4+CD25+ regulatory T cells," Nat. Immunol., 4(4):330-336 (2003). Epub 2003 Mar 3. |

| Examiner Signature | Date Considered |
|---|---|
| EXAMINER: Initials citation considered. Draw line through citation if no next communication to applicant. | t in conformance and not considered. Include copy of this form with |

| Substitute Form PTO-1449 (Modified) | U.S. Department of Commerce Patent and Trademark Office | Attorney's Docket No. 10861-033US1 | Application No. 10/575,932 |
|-------------------------------------|--|---------------------------------------|----------------------------|
| | closure Statement pplicant | Applicant Anjana Rao et al. | |
| (Use several s | heets if necessary) | Filing Date April 14, 2006 | Group Art Unit 1656 |

| | Other D | ocuments (include Author, Title, Date, and Place of Publication) |
|---------------------|--------------|---|
| Examiner Initial | Desig. ID | Document |
| iniuai | C27 | Friedman and Weiner, "Induction of anergy or active suppression following oral tolerance is determined by antigen dosage," Proc. Natl. Acad. Sci. U S A., 91(14):6688-6692 (1994) |
| | C28 | Gajewski et al., "Anergic T-lymphocyte clones have altered inositol phosphate, calcium, and tyrosine kinase signaling pathways," Proc. Natl. Acad. Sci. USA 91(1):38-42, (1994) |
| | C29 | Garrus et al., "Tsg101 and the vacuolar protein sorting pathway are essential for HIV-1 budding," Cell, 107(1):55-65 (2001) |
| | C30 | Garside and Mowat, "Oral tolerance," Semin. Immunol. 13(3):177-185 (2001) |
| | C31 | Gause et al., "The immune response to parasitic helminths: insights from murine models," Trends Immunol., 24(5):269-277 (2003) |
| | C32 | Grakoui et al., "The immunological synapse: a molecular machine controlling T cell activation," Science, 285:221-227 (1999) |
| | C33 | Harris et al., "Ubiquitin-mediated degradation of active Src tyrosine kinase," Proc. Natl. Acad. Sci. USA 96(24):13738-43, (1999) |
| | C34 | Healy et al., "Different nuclear signals are activated by the B cell receptor during positive versus negative signaling," Immunity. 6(4):419-428 (1997) |
| | C35 | Heissmeyer et al., "Calcineurin imposes T cell unresponsiveness through targeted proteolysis of signaling proteins," Nat. Immunol., 5(3):255-65 (2004). Epub 2004 Feb 15. |
| | C36 | Heissmeyer et al., "Shared pathways of IkappaB kinase-induced SCF(betaTrCP)- mediated ubiquitination and degradation for the NF-kappaB precursor p105 and IkappaBalpha," Mol. Cell Biol., 21(4):1024-1035 (2001) |
| | C37 | Hernandez et al., "Experimental murine schistosomiasis in the absence of B7 costimulatory molecules: reversal of elicited T cell cytokine profile and partial inhibition of egg granuloma formation," J. Immunol., 162(5):2884-9 (1999) |
| | C38 | Hershko and Ciechanover, "The ubiquitin system," Annu Rev. Biochem., 67:425-479 (1998) |
| | C39 | Hicke, "A new ticket for entry into budding vesicles-ubiquitin," Cell, 106(5):527-530 (2001) |
| | C40 | Hogan et al., "Transcriptional regulation by calcium, calcineurin, and NFAT," Genes Dev. 17(18):2205-32 (2003). |
| - | C41 | Huibregtse et al., "A family of proteins structurally and functionally related to the E6-AP ubiquitin-protein ligase," Proc. Natl. Acad. Sci. U S A. 92(7):2563-2567 (1995). Erratum in: Proc Natl Acad Sci U S A. 1995 May 23;92(11):5249. |

| 1 | Examiner Signature | Date Considered |
|---|--|--|
| | | |
| | EXAMINER: Initials citation considered. Draw line through citation if no | it in conformance and not considered. Include copy of this form with |
| | next communication to applicant. | |

| | Substitute Form PTO-1449 (Modified) | U.S. Department of Commerce Patent and Trademark Office | Attorney's Docket No. 10861-033US1 | Application No. 10/575,932 | |
|--|-------------------------------------|--|---------------------------------------|----------------------------|--|
| by Applicant (Use several sheets if necessary) | | Applicant Anjana Rao et al. | | | |
| | | Filing Date | Group Art Unit | | |
| | (37 CFR §1.98(b)) | | April 14, 2006 | 1656 | |

| | Other D | ocuments (include Author, Title, Date, and Place of Publication) |
|----------|---------|--|
| Examiner | Desig. | Document |
| Initial | C42 | Huibregtse et al., "Cloning and expression of the cDNA for E6-AP, a protein that mediates the interaction of the human papillomavirus E6 oncoprotein with p53," Mol. Cell Biol., 13(2):775-784 (1993) |
| | C43 | Hu-Li et al., "Regulation of expression of IL-4 alleles: analysis using a chimeric GFP/IL-4 gene," Immunity, 14(1):1-11 (2001) |
| | C44 | Huppa et al., "Continuous T cell receptor signaling required for synapse maintenance and full effector potential," Nat. Immunol. 4(8):749-55, (2003) |
| | C45 | Irvin et al., "Pleiotropic contributions of phospholipase C-gamma1 (PLC-gamma1) to T-cell antigen receptor-mediated signaling: reconstitution studies of a PLC-gamma1-deficient Jurkat T-cell line," Mol. Cell. Biol. 20(24):9149-61, (2000) |
| | C46 | Jain et al., "Analysis of the AP-1 sites in the IL-2 promoter," J. Immunol., 148(4):1240-1250 (1992). |
| | C47 | Jain et al., "The T-cell transcription factor NFATp is a substrate for calcineurin and interacts with Fos and Jun," Nature, 365(6444):352-355 (1993) |
| | C48 | Jain et al., "A similar DNA-binding motif in NFAT family proteins and the Rel homology region," J. Biol. Chem., 270(8):4138-4145 (1995) |
| | C49 | Jenkins, "The ups and downs of T cell costimulation," Immunity, 1(6):443-446 (1994) |
| | C50 | Kamradt and Mitchison, "Tolerance and autoimmunity," New Engl. J. Med. 344(9):655-64 (2001) |
| | C51 | Katzmann et al., "Ubiquitin-dependent sorting into the multivesicular body pathway requires the function of a conserved endosomal protein sorting complex, ESCRT-I," Cell, 106(2):145-155 (2001) |
| | C52 | Khoshnan et al., "The physical association of protein kinase C theta with a lipid raft-associated inhibitor of kappa B factor kinase (IKK) complex plays a role in the activation of the NF-kappa B cascade by TCR and CD28," J. Immunol. 165(12):6933-40 (2000) |
| | C53 | King et al., "Cytokine control of parasite-specific anergy in human urinary schistosomiasis. IL-10 modulates lymphocyte reactivity," J. Immunol. 156(12):4715-4721 (1996) |
| | C54 | Kohler and Schepartz, "Kinetic studies of Fos.Jun.DNA complex formation: DNA binding prior to dimerization," Biochemistry, 40(1):130-142 (2001) |
| | C55 | Lenschow et al., "CD28/B7 system of T cell costimulation," Annu Rev Immunol., 14:233-258 (1996) |
| | C56 | Li et al., "Blocked signal transduction to the ERK and JNK protein kinases in anergic CD4+ T cells," Science, 271(5253):1272-1276 (1996) |

| Examiner Signature | Date Considered |
|--|---|
| | |
| | |
| EXAMINER: Initials citation considered. Draw line through citation if no | t in contormance and not considered, include copy of this form with |

| Substitute Form PTO-1449 (Modified) | U.S. Department of Commerce Patent and Trademark Office | Attomey's Docket No. 10861-033US1 | Application No. 10/575,932 |
|--|--|--------------------------------------|-------------------------------|
| Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b)) | | Applicant Anjana Rao et al. | |
| | | Filing Date April 14, 2006 | Group Art Unit 1656 |

| Other Documents (include Author, Title, Date, and Place of Publication) | | | |
|---|--------|--|--|
| Examiner | Desig. | Document | |
| Initial | ID | Li et al., "Combined costimulation blockade plus rapamycin but not cyclosporine | |
| | C57 | produces permanent engraftment," Transplantation, 66(10):1387-1388 (1998) | |
| | C58 | Lo et al., "Ubiquitin-dependent degradation of TGF-beta-activated smad2," | |
| | C36 | Nat. Cell Biol. 1(8):472-8 (1999) | |
| | | MacDonald et al., "Impaired Th2 development and increased mortality during | |
| | C59 | Schistosoma mansoni infection in the absence of CD40/CD154 interaction," J | |
| - | | Immunol., 168(9):4643-9 (2002) | |
| | C60 | Macian et al., "Partners in transcription: NFAT and AP-1," Oncogene, | |
| | | 20(19):2476-2489 (2001) Macian et al., "Transcriptional mechanisms underlying lymphocyte tolerance," | |
| l i | C61 | Cell. 109(6):719-731 (2002) | |
| | | Mahanty et al., "High levels of spontaneous and parasite antigen-driven interleukin- | |
| | C62 | 10 production are associated with antigen-specific hyporesponsiveness in human | |
| | | lymphatic filariasis," J. Infect. Dis. 173(3):769-773 (1996) | |
| | C63 | Maloy and Powrie, "Regulatory T cells in the control of immune pathology," Nat. | |
| | C63 | Immunol., 2(9):816-822 (2001) | |
| | C64 | Mohrs et al., "Analysis of type 2 immunity in vivo with a bicistronic IL-4 reporter," | |
| | | Immunity, 15(2):303-311 (2001) | |
| C65 | | Monks et al., "Three-dimensional segregation of supramolecular activation clusters | |
| | | in T cells," Nature," 395(6697):82-86 (1998) Nalefski and Falke, "The C2 domain calcium-binding motif: structural and | |
| | C66 | functional diversity," Protein Sci., 5(12):2375-2390 (1996) | |
| | | Naramura et al., "c-Cbl and Cbl-b regulate T cell responsiveness by promoting | |
| | C67 | ligand-induced TCR down-modulation," Nat. Immunol. 3(12):1192-1199 (2002). | |
| | , | Epub 2002 Nov 4 | |
| | | Okamura et al., "Concerted dephosphorylation of the transcription factor NFAT1 | |
| | C68 | induces a conformational switch that regulates transcriptional activity," Mol. Cell., | |
| | | 6(3):539-50 (2000) | |
| C69 | | Van Parijs and Abbas, "Homeostasis and self-tolerance in the immune system: | |
| | | turning lymphocytes off," Science, 280(5361):243-248 (1998) | |
| | C70 | Pearce and MacDonald, "The immunobiology of schistosomiasis," Nat. Rev. | |
| | | Immunol., 2(7):499-511 (2002) Pearce et al., "Downregulation of Th1 cytokine production accompanies induction | |
| | C71 | of Th2 responses by a parasitic helminth, Schistosoma mansoni," J. Exp. Med. | |
| | L C/1 | 173(1):159-66 (1991) | |
| | | 1,5(1).15, 00 (155.1) | |

| Examiner Signature | Date Considered |
|--|---|
| | |
| EXAMINER: Initials citation considered. Draw line through citation if no | t in conformance and not considered. Include copy of this form with |
| next communication to applicant. | |

| Substitute Form PTO-1449 U.S. Department of Commerce (Modified) U.S. Department of Commerce Patent and Trademark Office Information Disclosure Statement by Applicant | | Attorney's Docket No. 10861-033US1 | Application No. 10/575,932 |
|---|---------------------|---------------------------------------|----------------------------|
| | | Applicant Anjana Rao et al. | |
| (Use several s | heets if necessary) | Filing Date | Group Art Unit |
| (37 CFR §1.98(b)) | | April 14, 2006 | 1656 |

| Other Documents (include Author, Title, Date, and Place of Publication) | | | |
|---|--------|---|--|
| Examiner | Desig. | Document | |
| Initial | ID | Perry et al., "The itchy locus encodes a novel ubiquitin protein ligase that is | |
| | C72 | disrupted in a18H mice," Nat. Genet. 18(2):143-146 (1998) | |
| | C73 | Pickart, "Mechanisms underlying ubiquitination," Annual Rev. Biochem., 70:503- | |
| | C/3 | 533 (2001) | |
| | C74 | Rabinowitz et al., "Altered T cell receptor ligands trigger a subset of early T cell | |
| | | signals," Immunity. 5(2):125-135 (1996) | |
| | C75 | Rao et al., "Transcription factors of the NFAT family: regulation and function," Annual Rev. Immunol, 15:707-747 (1997). | |
| | | Rao et al., "The Cbl family of ubiquitin ligases: critical negative regulators of | |
| | C76 | tyrosine kinase signaling in the immune system," J. Leukoc. Biol. 71(5):753-63. | |
| | | (2002) | |
| | | Rathore et al., "In situ analysis of B7-2 costimulatory, major histocompatibility | |
| | C77 | complex class II, and adhesion molecule expression in schistosomal egg | |
| | | granulomas," Am. J. Pathol. 149(1):187-194 (1996) | |
| | C78 | Read and Powrie, "CD4(+) regulatory T cells," Curr. Opin. Immunol. 13(6):644-649 (2001) | |
| | | Reiser and Stadecker, "Costimulatory B7 molecules in the pathogenesis of | |
| | C79 | infectious and autoimmune diseases," New England J. Med., 335(18):1369-77 | |
| | | (1996) | |
| | C80 | Rizo and Sudhof, "C2-domains, structure and function of a universal Ca2+-binding | |
| | | domain," J. Biol. Chem., 273(26):15879-15882 (1998) | |
| | C01 | Roehrl et al., "Selective inhibition of calcineurin-NFAT signaling by blocking | |
| | C81 | protein-protein interaction with small organic molecules," Proc. Natl. Acad. Sci. U S A. 101(20):7554-7559 (2004). Epub 2004 May 6. | |
| | | Rotin et al., "Ubiquitination and endocytosis of plasma membrane proteins: role of | |
| | C82 | Nedd4/Rsp5p family of ubiquitin-protein ligases," J. Membr. Biol., 176(1):1-17 | |
| | | (2000) | |
| | | Rutitzky et al., "Th1-polarizing immunization with egg antigens correlates with | |
| | C83 | severe exacerbation of immunopathology and death in schistosome infection," Proc. | |
| | | Natl. Acad. Sci. U S A. 98(23):13243-8. Epub 2001 Oct 23 (2001) Sabin et al., "Impairment of tetanus toxoid-specific Th1-like immune responses in | |
| | C84 | humans infected with Schistosoma mansoni," J. Infect. Dis., 173(1):269-272 (1996) | |
| | | Sadler et al., "IL-10 is crucial for the transition from acute to chronic disease state | |
| | C85 | during infection of mice with Schistosoma mansoni," Eur. J. Immunol. 33(4):880- | |
| | | 888 (2003). Erratum in: Eur. J. Immunol. 2003 Aug;33(8):2348. | |

| ı | Examiner Signature | Date Considered |
|---|--|---|
| ı | | |
| | EXAMINER: Initials citation considered. Draw line through citation if no | t in conformance and not considered. Include conv of this form with |
| | Liver in the state of the state | |

| Substitute Form PTO-1449 (Modified) | U.S. Department of Commerce Patent and Trademark Office | Attomey's Docket No. 10861-033US1 | Application No. 10/575,932 |
|---|--|--------------------------------------|----------------------------|
| Information Disclosure Statement by Applicant (Use several sheets if necessary) | | Applicant Anjana Rao et al. | |
| | | Filing Date | Group Art Unit |
| (37 CFR §1.98(b)) | | April 14, 2006 | 1656 |

| | Other Documents (include Author, Title, Date, and Place of Publication) | | |
|---------------------|---|--|--|
| Examiner Initial | Desig. ID | Document | |
| | C86 | Schwartz R.H., "Models of T cell anergy: is there a common molecular mechanism?," J. Exp. Med. 184(1):1-8 (1996) | |
| | C87 | Schwartz R.H., "A cell culture model for T lymphocyte clonal anergy," Science, 248(4961):1349-1356 (1990) | |
| | C88 | Schwartz, "T cell clonal anergy," Curr. Opin. Immunol., 9(3):351-357 (1997) | |
| | C89 | Seto et al., "When cell biology meets development: endocytic regulation of signaling pathways," Genes Dev. 16(11):1314-1336 (2002) | |
| | C90 | Sloan-Lancaster and Allen, "Altered peptide ligand-induced partial T cell activation: molecular mechanisms and role in T cell biology," Annual Rev. Immunol. 14:1-27 (1996) | |
| | C91 | Sorkin et al., "Signal transduction and endocytosis: close encounters of many kinds," Nat. Rev. Mol. Cell Biol. 3(8):600-14 (2002) | |
| | C92 | Stadecker and Vellanueva, "Accessory cell signals regulate Th-cell responses: from basic immunology to a model of helminthic disease," Immunol. Today, (12):571-574 (1994) | |
| | C93 | Stadecker et al., "Induction of T helper cell unresponsiveness to antigen by macrophages from schistosomal egg granulomas. A basis for immunomodulation in schistosomiasis?," J. Immunol. 145(8):2697-2700 (1990) | |
| | C94 | Straight et al., "Dissecting temporal and spatial control of cytokinesis with a myosin II Inhibitor," Science, 299(5613):1743-1747 (2003) | |
| | C95 | Sundstedt et al., "In vivo anergized CD4+ T cells express perturbed AP-1 and NF-kappa B transcription factors," Proc. Natl. Acad. Sci. U S A. 93(3):979-84 (1996) | |
| | C96 | Swaminathan and Tsygankov, "The Cbl Family Proteins: Ring Leaders in Regulation of Cell Signaling," Journal of Cellular Physiology, 209:21-43 (2006). | |
| | C97 | Valitutti et al., "Degradation of T cell receptor (TCR)-CD3-zeta complexes after antigenic stimulation," J. Exp. Med 185(10):1859-64 (1997) | |
| | C98 | Villanueva et al., "Macrophages from schistosomal egg granulomas induce unresponsiveness in specific cloned Th-1 lymphocytes in vitro and down-regulate schistosomal granulomatous disease in vivo," J. Immunol. 152(4):1847-1855 (1994) | |
| | C99 | Villanueva et al., "Regulation of T helper cell responses in experimental murine schistosomiasis by IL-10. Effect on expression of B7 and B7-2 costimulatory molecules by macrophages," J. Immunol. 153(11):5190-5199 (1994) | |
| | C100 | Von Andrian, "T cell activation in six dimensions," Science, 296(5574):1815-1817 (2002) | |

| Examiner Signature | Date Considered | |
|--|---|--|
| | | |
| EXAMINER: Initials citation considered. Draw line through citation if no | t in conformance and not considered. Include copy of this form with | |
| next communication to applicant | | |

| Substitute Form PTO-1449 (Modified) | U.S. Department of Commerce Patent and Trademark Office | Attorney's Docket No. 10861-033US1 | Application No. 10/575,932 |
|--|--|---------------------------------------|----------------------------|
| Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b)) | | Applicant Anjana Rao et al. | |
| | | Filing Date April 14, 2006 | Group Art Unit 1656 |

| Other Documents (include Author, Title, Date, and Place of Publication) | | |
|---|--------------|--|
| Examiner Initial | Desig. ID | Document |
| IIIIIIai | | Wilde et al., "Regulation of phospholipase C gamma isoforms in haematopoietic |
| | C101 | cells: why one, not the other?," Cell Signal 13(10):691-701, (2001) |
| | | Winberg et al., "Latent membrane protein 2A of Epstein-Barr virus binds WW |
| | C102 | domain E3 protein-ubiquitin ligases that ubiquitinate B-cell tyrosine kinases," Mol. Cell Biol., 20(22):8526-8535 (2000) |
| | | Yokoi et al., "Cblb is a major susceptibility gene for rat type 1 diabetes mellitus," |
| | C103 | Nat. Genet. 31(4):391-394 (2002). Epub 2002 Jul 15 |
| | | Zheng et al., "A sensitive non-radioactive in situ hybridization method for the |
| 1 | C104 | detection of chicken IgG gamma-chain mRNA: a technique suitable for detecting of variety of mRNAs in tissue sections," Biol. Proced Online. 3:1-7 (2001) |
| | C105 | GenBank accession number NM_000732 |
| | C106 | GenBank accession number NM 000/33 |
| | C107 | GerBank accession number NM 000734 |
| | C108 | GenBank accession number NM 001079 |
| | C109 | GenBank accession number NM_002660 |
| | C110 | GenBank accession number M_002890 |
| | C111 | GenBank accession number NM_005188 |
| | C112 | GenBank accession number NM_005356 |
| | C113 | GenBank accession number NM_006292 |
| | C114 | GenBank accession number NM_007648 |
| | C115 | GenBank accession number NM_008859 |
| | C116 | GenBank accession number NM_009539 |
| | C117 | GenBank accession number NM_010890 |
| | C118 | GenBank accession number NM_012116 |
| | C119 | GenBank accession number NM_013487 |
| | C120 | GenBank accession number NM_021884 |
| | C121 | GenBank accession number NM_023224 |
| | C122 | GenBank accession number NM_033270 |
| | C123 | GenBank accession number NM_024539 |
| | C124 | GenBank accession number NM_031182 |

Examiner Signature

Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

| | | PTO-1449 U.S. Department of Commerce Patent and Trademark Office 10861-033US1 | | Application No. 10/575,932 |
|--|---------------------|---|--------------------------------|----------------------------|
| | | | Applicant Anjana Rao et al. | |
| | neets if necessary) | Filing Date April 14, 2006 | Group Art Unit 1656 | |

| Other Documents (include Author, Title, Date, and Place of Publication) | | | | |
|---|--------|-------------------------------------|--|--|
| Examiner Initial | Desig. | Document | | |
| | C125 | GenBank accession number NM_03148/3 | | |
| | C126 | GenBank accession number NM_145452 | | |
| | C127 | GenBank accession number NP_000/23 | | |
| | C128 | GenBank accession number NP_000724 | | |
| | C129 | GenBank accession number NP_000725 | | |
| | C130 | GenBank accession number NP 001070 | | |
| | C131 | GenBank accession number N _002651 | | |
| | C132 | GenBank accession number P_002881 | | |
| | C133 | GenBank accession number NP_005179 | | |
| | C134 | GenBank accession number NP_005347 | | |
| | C135 | GenBank accession number NP_006248 | | |
| | C136 | GenBank accession number NP_006283 | | |
| | C137 | GenBank accession number NP_031645 | | |
| | C138 | GenBank accession number NP_031674 | | |
| | C139 | GenBank accession number NP_032885 | | |
| | C140 | GenBank accession number NP_035020 | | |
| | C141 | GenBank accession number NP_033565 | | |
| | C142 | GenBank accession number NP_036248 | | |
| | C143 | GenBank accession number NP_038515 | | |
| | C144 | GenBank accession number NP_068684 | | |
| | C145 | GenBank/accession number NP_075713 | | |
| | C146 | GenBank accession number NP_075759 | | |
| | C147 | GenBank accession number NP_078815 | | |
| | C148 | GenPank accession number NA 112439 | | |
| | C149 | GeyBank accession number NP 113671 | | |
| | C1:50 | GenBank accession number NP_063427 | | |
| | C151 | GenBank accession number Q13191 | | |

| Examiner Signature | Date Considered | |
|--|-----------------|--|
| | | |
| EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | | |

| Substitute Form PTO-1449 (Modified) U.S. Department of Commerce Patent and Trademark Office Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b)) | | Attorney's Docket No. 10861-033US1 | Application No. 10/575,932 |
|---|--------------------------------|---------------------------------------|----------------------------|
| | Applicant Anjana Rao et al. | | |
| | Filing Date April 14, 2006 | Group Art Unit 1656 | |

| Other Documents (include Author, Title, Date, and Place of Publication) | | | |
|---|------|------------------------------------|--|
| Examiner Desig. | | Document | |
| | C152 | GenBank accession number U26710 | |
| | C153 | GenBank accession number XM_046129 | |
| | C154 | GenBank accession number XM_130636 | |
| | C155 | GenBank accession number XM_156257 | |
| | C156 | GenBank accession number XM_192925 | |
| | C157 | GenBank accession number XP_046129 | |
| | C158 | GenBank accession number XP_130636 | |
| | C159 | GenBank accession number XP_N6257 | |
| | C160 | GenBank accession number XP_192925 | |

| | Examiner Signature /David J. S | teadman/ | Date Considered 12/19/2008 | |
|---|--------------------------------|----------|----------------------------|--|
| EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with | | | | |